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Signal, Noise, and Detective Quantum Efficiency of A-Si:H Flat-panel Imagers
Acquisition, Tracking, Pointing, and Laser Systems Technologies
XXI An Introductory Guide to EC Competition Law and Practice
Adaptive Optical Systems and Applications
Jerry L. Prince
Prince United States. Patent and Trademark Office
Jian Li Tetyana Chumachenko Michael G. Hennerici Arnulf Oppelt Albert Macovski Heinz K. Grohs Adolf F. Fercher Wing P. Chan Jeffrey Harold Siewerdsen Steven L. Chodos Valentine Korah Robert K. Tyson

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for courses in medical imaging systems with signal processing as its foundation this text covers the most important imaging modalities in radiology projection radiography x ray computed tomography nuclear medicine ultrasound imaging and magnetic resonance imaging organized into parts to emphasize key overall conceptual divisions medical imaging is most appropriate for engineering students who have taken the prerequisite signals and systems courses as well as elementary probability

the first book to present a systematic and coherent picture of mimo radars due to its potential to improve target detection and discrimination capability multiple input and multiple output mimo radar has generated significant attention and widespread interest in academia industry government labs and funding agencies this important new work fills the need for a comprehensive treatment of this emerging field edited and authored by leading researchers in the field of mimo radar research this book introduces recent developments in the area of mimo radar to stimulate new concepts theories and applications of the topic and to foster further cross fertilization of ideas with mimo communications topical coverage includes adaptive mimo radar beampattern analysis and optimization for mimo radar mimo radar for target detection parameter estimation tracking association and recognition mimo radar prototypes and measurements space time codes for mimo radar statistical mimo radar waveform design for mimo radar written in an easy to follow tutorial style mimo radar signal processing serves as an excellent course book for graduate students and a valuable reference for researchers in academia and industry

artificial intelligence ai has shown promise as an effective tool in disaster preparedness and response providing a unique perspective on some of the most urgent health challenges rapid advances in ai technology can potentially revolutionize the way how we respond to emergencies and disasters that affect the world s health including early warning systems resource allocation and real time decision making this research topic aims to explore the latest developments in ai and its applications in global health and disaster response providing a comprehensive overview of the potential and challenges of ai in improving health outcomes in crises this research topic will bring together leading researchers practitioners and policymakers in global health and disaster response to share their experiences and insights on how ai can be leveraged to improve response efforts and enhance healthcare delivery

features more than 500 line drawings and images the critically acclaimed vascular diagnosis of ultrasound returns in a new two volume second edition offering the most comprehensive

information available on the broad spectrum of vascular ultrasound applications volume 1 cerebral and peripheral vessels retains the accessible design and structure of the first edition to discuss the available ultrasound technologies including continuous and pulsed wave doppler mode b mode and conventional and color coded duplex analysis in frequency and amplitude power modes this text covers anatomy physiology normal and abnormal findings test accuracy and sensitivity providing the reader with the information essential to managing common clinical situations highlights provides comprehensive coverage of vascular ultrasonography in the arteries and veins of the cerebral circulation and the peripheral upper and lower limb circulation compares other diagnostic methods used in each region such as conventional and noninvasive mr angiography assesses recent developments in ultrasound technology including tissue perfusion studies 3d and 4d imaging contrast enhancement and microbubble applications and their diagnostic technological and therapeutic implications challenging case studies for both the novice and the expert to review with contributions from experts in the field and more than 500 line drawings and images this text is an indispensable reference for radiologists vascular surgeons and residents and students in these specialties

the book provides a comprehensive compilation of fundamentals technical solutions and applications for medical imaging systems it is intended as a handbook for students in biomedical engineering for medical physicists and for engineers working on medical technologies as well as for lecturers at universities and engineering schools for qualified personnel at hospitals and physicians working with these instruments it serves as a basic source of information this also applies for service engineers and marketing specialists the book starts with the representation of the physical basics of image processing implying some knowledge of fourier transforms after that experienced authors describe technical solutions and applications for imaging systems in medical diagnostics the applications comprise the fields of x ray diagnostics computed tomography nuclear medical diagnostics magnetic resonance imaging sonography molecular imaging and hybrid systems considering the increasing importance of software based solutions emphasis is also laid on the imaging software platform and hospital information systems

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